

**United States Environmental Protection Agency
Region 7
901 N. 5th Street
Kansas City, KS 66101**

Date: JUN 12 2012

Subject: Transmittal of Sample Analysis Results for ASR #: 5730

Project ID: MDA7X300

Project Description: Former Lyons Diecasting Company - Removal Assessment sampling

From: Michael F. Davis, Chief  6/13/12
Chemical Analysis and Response Branch, Environmental Services Division

To: Mike B. Davis
SUPR/ERSB/PPSS

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

A7X3

40405377

1.0



Superfund

0400

Project Manager: Mike B. Davis**Org:** SUPR/ERSB/PP
SS**Phone:** 913-551-7328**Project ID:** MDA7X300**Project Desc:** Former Lyons Diecasting Company - Removal Assessment sampling**Location:** Buckner**State:** Missouri**Program:** Superfund**Site Name:** FORMER LYONS DIECASTING COMPANY - SITEWIDE**Site ID:** A7X3 **Site OU:** 00**Purpose:** Site Cleanup Support**GPRA PRC:** 303DC6

Removal Assessment/Treatability Study.

Explanation of Codes, Units and Qualifiers used on this report**Sample QC Codes:** QC Codes identify the type of sample for quality control purpose.**Units:** Specific units in which results are reported.

___ = Field Sample

mg/kg = Milligrams per Kilogram

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank)= Values have been reviewed and found acceptable for use.

U = The analyte was not detected at or above the reporting limit.

ASR Number: 5730**Sample Information Summary****06/12/2012****Project ID: MDA7X300****Project Desc: Former Lyons Diecasting Company - Removal Assessment
sampling**

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 -	___	Waste	LDMS-1		05/15/2012	12:11			05/16/2012
2 -	___	Waste	LDMS-2		05/15/2012	14:00			05/16/2012
3 -	___	Waste	LDMS-3		05/15/2012	15:00			05/16/2012
4 -	___	Waste	LDMS-4		05/15/2012	16:01			05/16/2012
5 -	___	Waste	LDMS-5		05/15/2012	17:02			05/16/2012
6 -	___	Waste	LDMS-6		05/16/2012	10:15			05/17/2012
7 -	___	Waste	LDMS-7		05/16/2012	11:06			05/17/2012
8 -	___	Waste	LDMS-8		05/16/2012	12:16			05/17/2012
9 -	___	Waste	LDMS-9		05/16/2012	13:16			05/17/2012
10 -	___	Waste	LDMS-10		05/16/2012	14:15			05/17/2012
11 -	___	Waste	LDMS-11		05/16/2012	15:13			05/17/2012
12 -	___	Waste	LDMS-12		05/16/2012	16:14			05/17/2012

Analysis Comments About Results For This Analysis

1 PCBs in Solid Waste by Quick Microextraction and GC/ECD**Lab:** Region 7 EPA Laboratory - Kansas City, Ks.**Method:** EPA Region 7 RLAB Method 3240.8A**Samples:** 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
 8-__ 9-__ 10-__ 11-__ 12-__**Comments:**

Dilutions were necessary because of high levels of Aroclor1242 and Aroclor1248 in all samples for this analysis. The reporting limits were elevated approximately 100 times due to dilutions in samples 5730-1 (90.1X); -2 (102X), -3 (87X), -4 (94.3X), -5 (86.2X), -6 (100X), -7 (109X), -8 (104X), -9 (69.4X), -10 (82.8X), -11 (82.0X), and -12 (86.2X).

ASR Number: 5730

RLAB Approved Sample Analysis Results

06/12/2012

Project ID: MDA7X300

Project Desc: Former Lyons Diecasting Company - Removal Assessment
sampling

Analysis/ Analyte

Units

1-__

2-__

3-__

4-__

1 PCBs in Solid Waste by Quick Microextraction and GC/ECD

Aroclor 1242	mg/kg	14	30	35	34
Aroclor 1248	mg/kg	9.8	20	22	22
Aroclor 1254	mg/kg	9.0 U	10 U	8.7 U	9.4 U
Aroclor 1260	mg/kg	2.2 U	10 U	8.7 U	9.4 U

ASR Number: 5730

RLAB Approved Sample Analysis Results

06/12/2012

Project ID: MDA7X300

Project Desc: Former Lyons Diecasting Company - Removal Assessment
sampling

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
1 PCBs in Solid Waste by Quick Microextraction and GC/ECD					
Aroclor 1242	mg/kg	35	43	40	41
Aroclor 1248	mg/kg	26	27	26	29
Aroclor 1254	mg/kg	5.6 U	7.6 U	11 U	10 U
Aroclor 1260	mg/kg	8.6 U	10 U	11 U	10 U

ASR Number: 5730

RLAB Approved Sample Analysis Results

06/12/2012

Project ID: MDA7X300

Project Desc: Former Lyons Diecasting Company - Removal Assessment
sampling

Analysis/ Analyte

Units

9-__

10-__

11-__

12-__

1 PCBs in Solid Waste by Quick Microextraction and GC/ECD

Aroclor 1242	mg/kg	39	41	43	36
Aroclor 1248	mg/kg	26	26	26	22
Aroclor 1254	mg/kg	6.9 U	8.3 U	8.2 U	8.6 U
Aroclor 1260	mg/kg	6.9 U	8.3 U	8.2 U	8.6 U

**CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII**

ACTIVITY LEADER(Print) MICHAEL B DAVIS	NAME OF SURVEY OR ACTIVITY FORMER LYONS DEWASTIN	DATE OF COLLECTION 15 / 5 / 2012 DAY MONTH YEAR	SHEET 1 of 1
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CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS					SAMPLED MEDIA					RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers etc.)
	CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (2 VIALS EA)	water	soil	sediment	dust	other	
5730-1			1								✓
5730-2			1								✓
5730-3	1		1								✓
5730-4	1		1								✓
5730-5	1	✓	1	1							✓
<div style="position: relative;"> <div style="position: absolute; top: 10px; left: 10px;"> <p><i>CCC corrected to show that 8 vials were collected + Recd. 5/16/12</i></p> </div> <div style="position: absolute; top: 30%; left: 30%; border: 2px solid black; border-radius: 50%; padding: 20px; text-align: center;"> <p>ACTIVITY NOT COMPLETE MUSG 5/15/12</p> </div> <div style="position: absolute; top: 60%; left: 70%;"> <p><i>NOTE: Samples had one extraction performed in the field by David Wilson + Megan St. Germain</i></p> </div> <div style="position: absolute; bottom: 10%; right: 10%;"> <p><i>MUSG delivered samples directly to BD Ref. @ 4°C</i></p> </div> </div>											

DESCRIPTION OF SHIPMENT 5 PIECE(S) CONSISTING OF _____ BOX(ES) _____ ICE CHEST(S); OTHER _____	MODE OF SHIPMENT _____ COMMERCIAL CARRIER: _____ _____ COURIER <input checked="" type="checkbox"/> SAMPLER CONVEYED (SHIPPING DOCUMENT NUMBER) _____
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PERSONNEL CUSTODY RECORD					
RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	DATE	REASON FOR CHANGE OF CUSTODY
<i>M St Germain</i>	<i>5/16/12</i>	<i>19:15P</i>	<i>Michael Raulz</i>		<i>Analysis</i>
<input type="checkbox"/> SEALED <input checked="" type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input checked="" type="checkbox"/> UNSEALED		
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	REASON FOR CHANGE OF CUSTODY
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED		
RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	REASON FOR CHANGE OF CUSTODY
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED			<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED		

**CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII**

ACTIVITY LEADER(Print) MICHAEL B DAVIS		NAME OF SURVEY OR ACTIVITY FORMER LYONS DISCASTING		DATE OF COLLECTION 16 / 5 / 2012 DAY MONTH YEAR		SHEET 1 of 1					
CONTENTS OF SHIPMENT											
SAMPLE NUMBER	TYPE OF CONTAINERS				VOA SET (2 VIALS EA)	SAMPLED MEDIA					RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	CUBITAINER	BOTTLE	BOTTLE	BOTTLE		water	soil	sediment	dust	other	
5730-6	1		1							✓	
5730-7	1		1							✓	
5730-8	1		1							✓	
5730-9	1		1							✓	
5730-10	1		1							✓	
5730-11	1		1							✓	
5730-12	1		1							✓	
<p><i>COC corrected to show 8 by jars. Peril, NOT Cub's. 5/17/12 Activity COMPLETE</i></p> <p><i>NOTE: Samples were field extracted. many</i></p> <p><i>MSG delivered samples directly to BD Ref @ 4°C</i></p>											
DESCRIPTION OF SHIPMENT					MODE OF SHIPMENT						
1 PIECE(S) CONSISTING OF _____ BOX(ES) 0 ICE CHEST(S); OTHER _____					COMMERCIAL CARRIER: _____ ✓ COURIER ✓ SAMPLER CONVEYED			(SHIPPING DOCUMENT NUMBER) 5/17/12			
PERSONNEL CUSTODY RECORD											
RELINQUISHED BY (SAMPLER)		DATE	TIME	RECEIVED BY		REASON FOR CHANGE OF CUSTODY					
Margaret H. Jensen		5/16/12	18:30	Michael Rowe		Analys					
<input type="checkbox"/> SEALED <input checked="" type="checkbox"/> UNSEALED				<input type="checkbox"/> SEALED <input checked="" type="checkbox"/> UNSEALED							
RELINQUISHED BY		DATE	TIME	RECEIVED BY		REASON FOR CHANGE OF CUSTODY					
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED				<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED							
RELINQUISHED BY		DATE	TIME	RECEIVED BY		REASON FOR CHANGE OF CUSTODY					
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED				<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED							

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5730 **Sample Number:** 1 **QC Code:** ____ **Matrix:** Waste **Tag ID:** 5730-1-____

Project ID: MDA7X300 **Project Manager:** Mike B. Davis
Project Desc: Former Lyons Diecasting Company - Removal Assessment sampling
City: Buckner **State:** Missouri
Program: Superfund
Site Name: FORMER LYONS DIECASTING COMPANY - SITEWIDE **Site ID:** A7X3 **Site OU:** 00

Location Desc: _____

External Sample Number: LDMS-1

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____

Sample Collection: Start: 5/15/12 12:11

Longitude: _____

End: ____/____/____ ____:____

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 PCBs in Solid Waste by Quick Microextraction and GC/ECD

Sample Comments:

(N/A)

Sample Collected By: TT/START

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5730 Sample Number: 2 QC Code: ___ Matrix: Waste Tag ID: 5730-2-___

Project ID: MDA7X300 Project Manager: Mike B. Davis
Project Desc: Former Lyons Diecasting Company - Removal Assessment sampling
City: Buckner State: Missouri
Program: Superfund
Site Name: FORMER LYONS DIECASTING COMPANY - SITEWIDE Site ID: A7X3 Site OU: 00

Location Desc: _____

External Sample Number: LDMS-2

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: 5/15/12 14:00

Longitude: _____

End: ___/___/___ ___:___

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 PCBs in Solid Waste by Quick Microextraction and GC/ECD

Sample Comments:

(N/A)

Sample Collected By: TT/START

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5730 Sample Number: 3 QC Code: ___ Matrix: Waste Tag ID: 5730-3-___

Project ID: MDA7X300 Project Manager: Mike B. Davis
Project Desc: Former Lyons Diecasting Company - Removal Assessment sampling
City: Buckner State: Missouri
Program: Superfund
Site Name: FORMER LYONS DIECASTING COMPANY - SITEWIDE Site ID: A7X3 Site OU: 00

Location Desc: _____

External Sample Number: LDMS-3

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: 5/15/12

15.00

Longitude: _____

End: 1/1/12

15.00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 PCBs in Solid Waste by Quick Microextraction and GC/ECD

Sample Comments:

(N/A)

Sample Collected By: TT/START

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5730 Sample Number: 4 QC Code: ___ Matrix: Waste Tag ID: 5730-4-___

Project ID: MDA7X300 Project Manager: Mike B. Davis
Project Desc: Former Lyons Diecasting Company - Removal Assessment sampling
City: Buckner State: Missouri
Program: Superfund
Site Name: FORMER LYONS DIECASTING COMPANY - SITEWIDE Site ID: A7X3 Site OU: 00

Location Desc: _____

External Sample Number: LDMS-4

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: 5/15/12 16:01

Longitude: _____

End: 1/1/ :_

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 PCBs in Solid Waste by Quick Microextraction and GC/ECD

Sample Comments:

(N/A)

Sample Collected By: TT/START

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5730 Sample Number: 5 QC Code: ___ Matrix: Waste Tag ID: 5730-5-___

Project ID: MDA7X300 Project Manager: Mike B. Davis
Project Desc: Former Lyons Diecasting Company - Removal Assessment sampling
City: Buckner State: Missouri
Program: Superfund
Site Name: FORMER LYONS DIECASTING COMPANY - SITEWIDE Site ID: A7X3 Site OU: 00

Location Desc: _____

External Sample Number: LMS-5

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: 5/15/12 1702

Longitude: _____

End: ___/___/___ ___:___

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 PCBs in Solid Waste by Quick Microextraction and GC/ECD

Sample Comments:

(N/A)

Sample Collected By: TT/START

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5730 Sample Number: 6 QC Code: ___ Matrix: Waste Tag ID: 5730-6-___

Project ID: MDA7X300 Project Manager: Mike B. Davis
Project Desc: Former Lyons Diecasting Company - Removal Assessment sampling
City: Buckner State: Missouri
Program: Superfund
Site Name: FORMER LYONS DIECASTING COMPANY - SITEWIDE Site ID: A7X3 Site OU: 00

Location Desc: _____

External Sample Number: LQMS-6

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: 5/16/12

10:15
10:20

Longitude: _____

End: 1/1/

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 PCBs in Solid Waste by Quick Microextraction and GC/ECD

Sample Comments:

(N/A)

Sample Collected By: TT/START

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5730 Sample Number: 7 QC Code: ___ Matrix: Waste Tag ID: 5730-7-___

Project ID: MDA7X300 Project Manager: Mike B. Davis
Project Desc: Former Lyons Diecasting Company - Removal Assessment sampling
City: Buckner State: Missouri
Program: Superfund
Site Name: FORMER LYONS DIECASTING COMPANY - SITEWIDE Site ID: A7X3 Site OU: 00

Location Desc: _____

External Sample Number: LDMS-7

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: 5/16/12

1106

Longitude: _____

End: 1/1/

:_

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 PCBs in Solid Waste by Quick Microextraction and GC/ECD

Sample Comments: _____

(N/A)

Sample Collected By: TT/START

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5730 Sample Number: 8 QC Code: ___ Matrix: Waste Tag ID: 5730-8-___

Project ID: MDA7X300 Project Manager: Mike B. Davis
Project Desc: Former Lyons Diecasting Company - Removal Assessment sampling
City: Buckner State: Missouri
Program: Superfund
Site Name: FORMER LYONS DIECASTING COMPANY - SITEWIDE Site ID: A7X3 Site OU: 00

Location Desc: _____

External Sample Number: LDMS-8

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: 5/16/12 12:16

Longitude: _____

End: 1/1/ :

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 PCBs in Solid Waste by Quick Microextraction and GC/ECD

Sample Comments:

(N/A)

Sample Collected By: TT/START

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5730 **Sample Number:** 9 **QC Code:** ____ **Matrix:** Waste **Tag ID:** 5730-9-____

Project ID: MDA7X300 **Project Manager:** Mike B. Davis
Project Desc: Former Lyons Diecasting Company - Removal Assessment sampling
City: Buckner **State:** Missouri
Program: Superfund
Site Name: FORMER LYONS DIECASTING COMPANY - SITEWIDE **Site ID:** A7X3 **Site OU:** 00

Location Desc: _____

External Sample Number: LDMS-9

Expected Conc: _____ (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: _____

Sample Collection: Start: 5/16/12

13:16

Longitude: _____

End: ____/____/____

____:____

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 PCBs in Solid Waste by Quick Microextraction and GC/ECD

Sample Comments:

(N/A)

Sample Collected By: TT/START

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5730 Sample Number: 10 QC Code: ___ Matrix: Waste Tag ID: 5730-10-___

Project ID: MDA7X300 Project Manager: Mike B. Davis
Project Desc: Former Lyons Diecasting Company - Removal Assessment sampling
City: Buckner State: Missouri
Program: Superfund
Site Name: FORMER LYONS DIECASTING COMPANY - SITEWIDE Site ID: A7X3 Site OU: 00

Location Desc: _____

External Sample Number: LDAS-10

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: 5/16/12

14:15

Longitude: _____

End: ___/___/___

___:___

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 PCBs in Solid Waste by Quick Microextraction and GC/ECD

Sample Comments:

(N/A)

Sample Collected By: TT/START

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5730 Sample Number: 11 QC Code: ___ Matrix: Waste Tag ID: 5730-11-___

Project ID: MDA7X300 Project Manager: Mike B. Davis
Project Desc: Former Lyons Diecasting Company - Removal Assessment sampling
City: Buckner State: Missouri
Program: Superfund
Site Name: FORMER LYONS DIECASTING COMPANY - SITEWIDE Site ID: A7X3 Site OU: 00

Location Desc: _____

External Sample Number: LDMS-11

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____

Latitude: _____

Sample Collection: Start: 5/16/12

15:13

Longitude: _____

End: 1/1/

:_

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 PCBs in Solid Waste by Quick Microextraction and GC/ECD

Sample Comments:

(N/A)

Sample Collected By: TT/START

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5730 Sample Number: 12 QC Code: ___ Matrix: Waste Tag ID: 5730-12-___

Project ID: MDA7X300 Project Manager: Mike B. Davis
Project Desc: Former Lyons Diecasting Company - Removal Assessment sampling
City: Buckner State: Missouri
Program: Superfund
Site Name: FORMER LYONS DIECASTING COMPANY - SITEWIDE Site ID: A7X3 Site OU: 00

Location Desc: _____

External Sample Number: LDMS-12

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: 5/16/12

16:14

Longitude: _____

End: 1/1/

:_

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 8 oz glass	4 Deg C	14 Days	1 PCBs in Solid Waste by Quick Microextraction and GC/ECD

Sample Comments:

(N/A)

Sample Collected By: TT/START